Figure 1

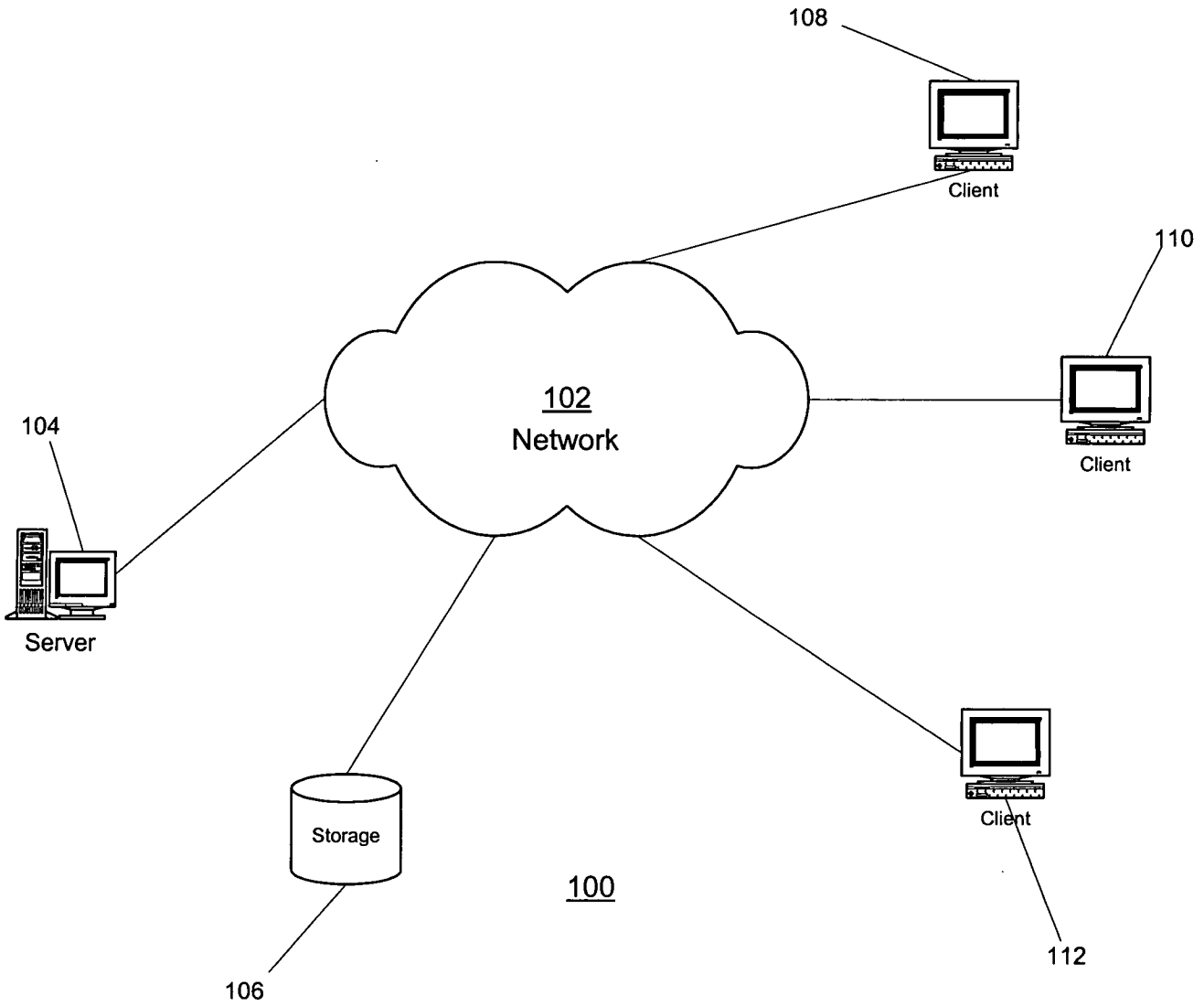
108
Client
110
102
Network
Client
104
Server
Storage
Client
100
106
112

Figure 2

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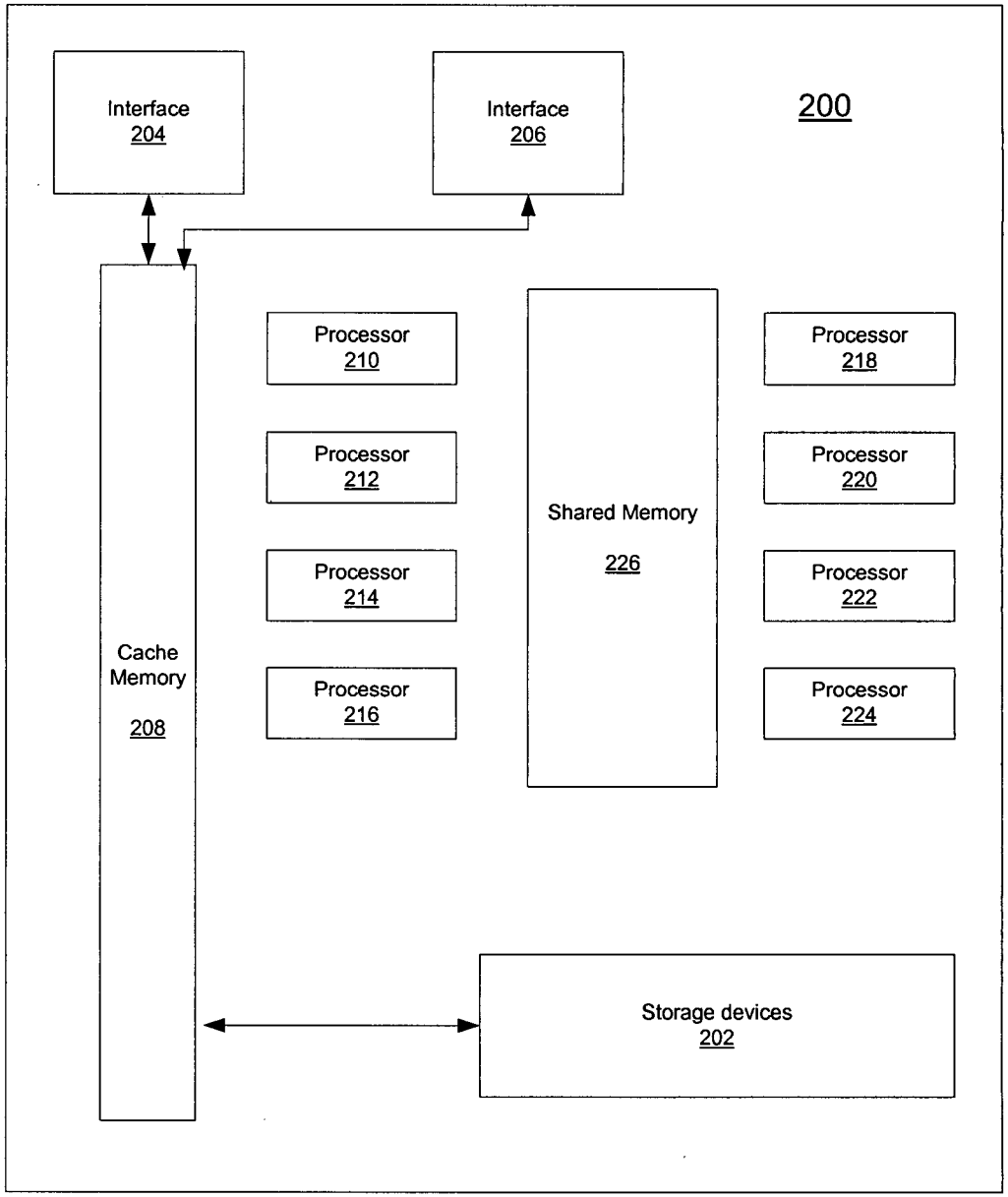

Figure 3

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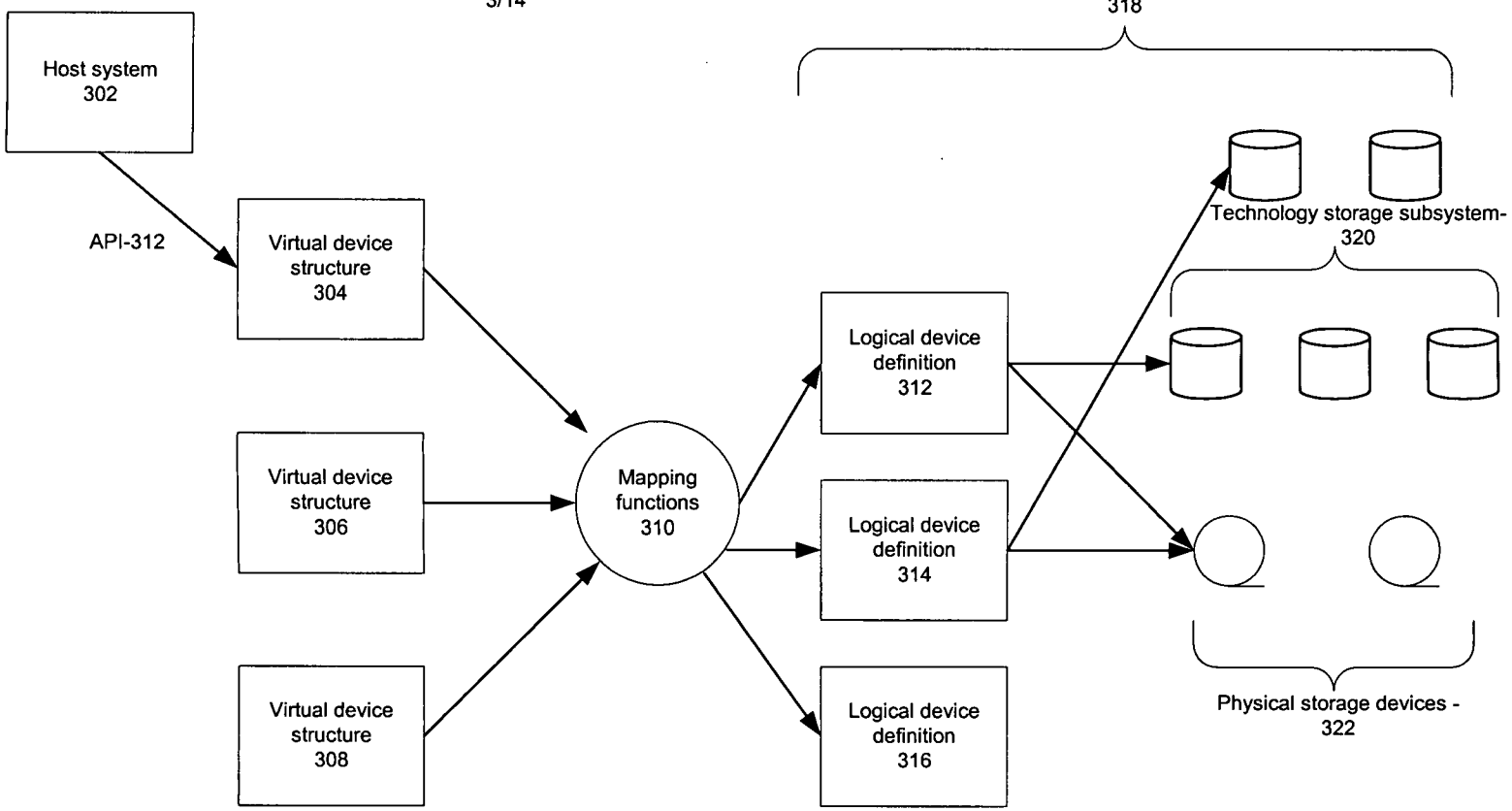

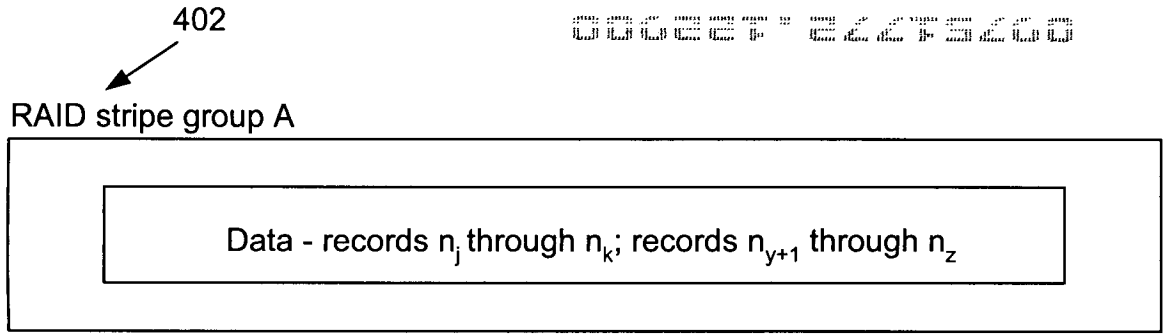
402
RAID stripe group A
Data - records n_j through n_k; records n_{y+1} through n_z
404
RAID stripe group B
Data - records n_{k+1} through n_x; records ...
406
RAID stripe group C
Data - records n_{x+1} through n_y; records .....

Figure 4

Figure 5

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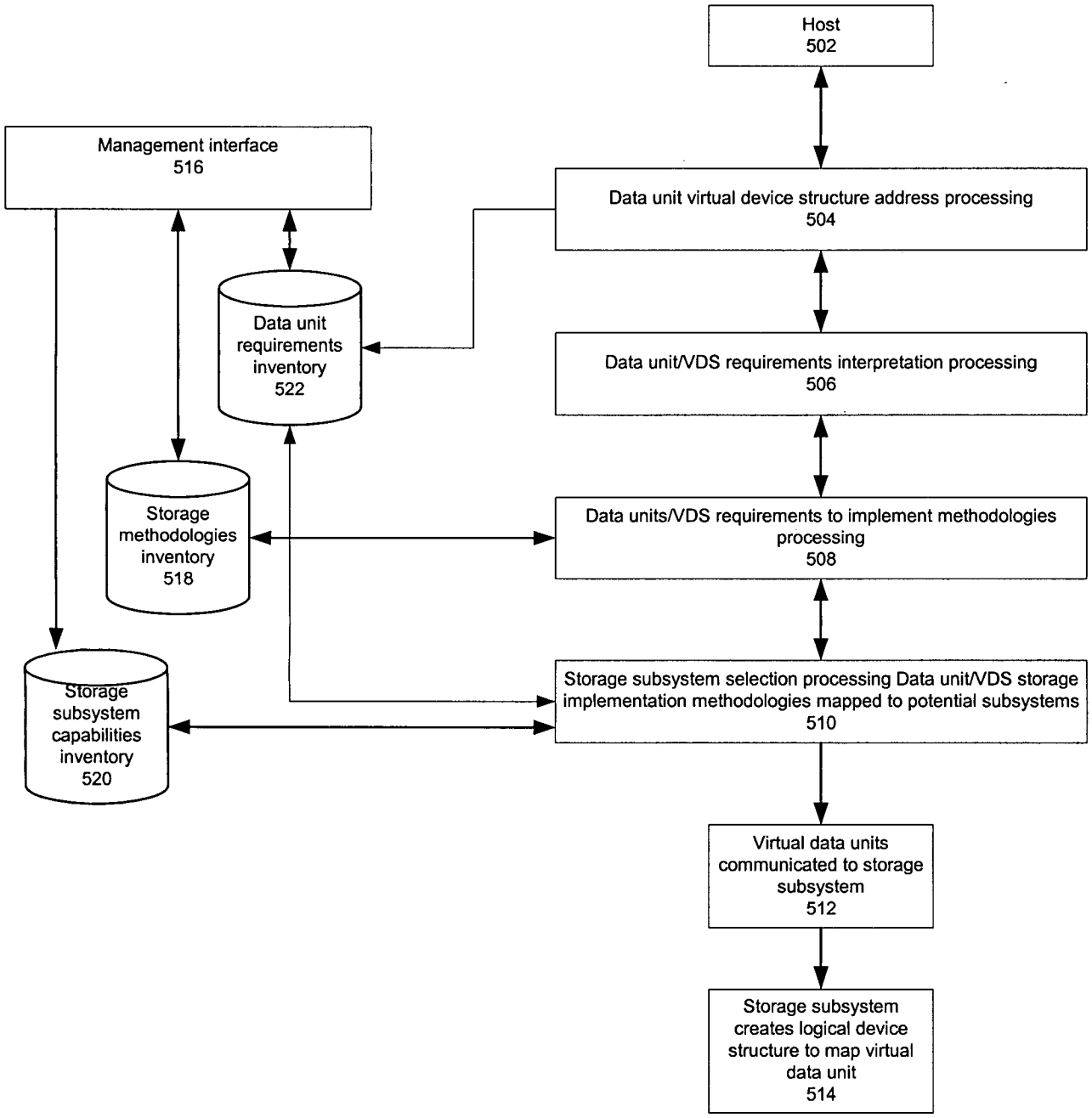
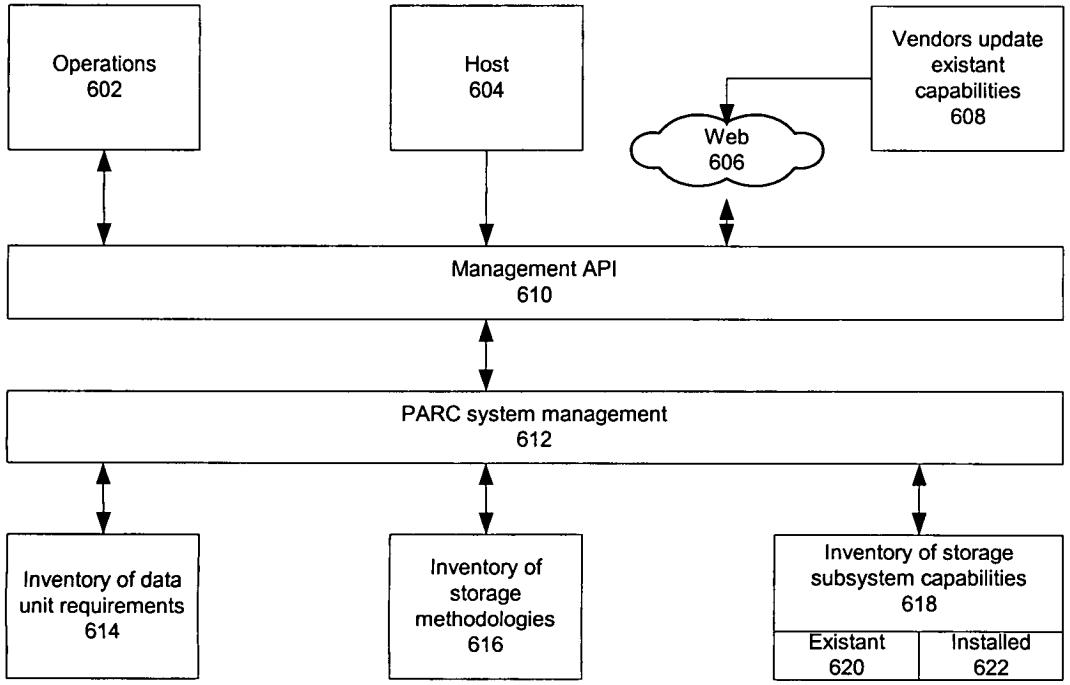


Figure 6


Operations
602
Host
604
Vendors update existant capabilities
608
Web
606
Management API
610
PARC system management
612
Inventory of data unit requirements
614
Inventory of storage methodologies
616
Inventory of storage subsystem capabilities
618
Existant
620
Installed
622

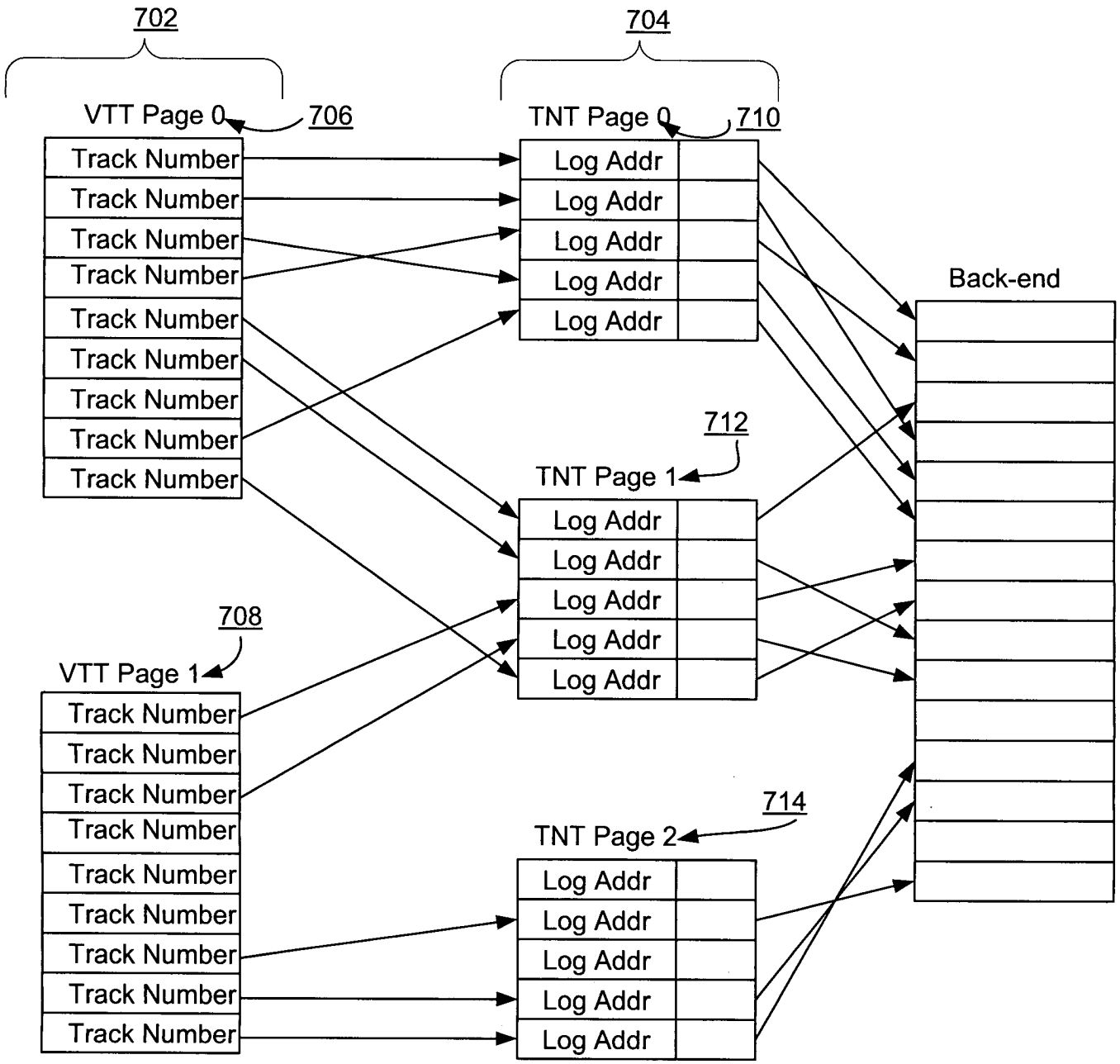

702
704
VTT Page 0
706
TNT Page 0
710
Track Number
Log Addr
Back-end
712
TNT Page 1
708
VTT Page 1
714
TNT Page 2

Figure 7

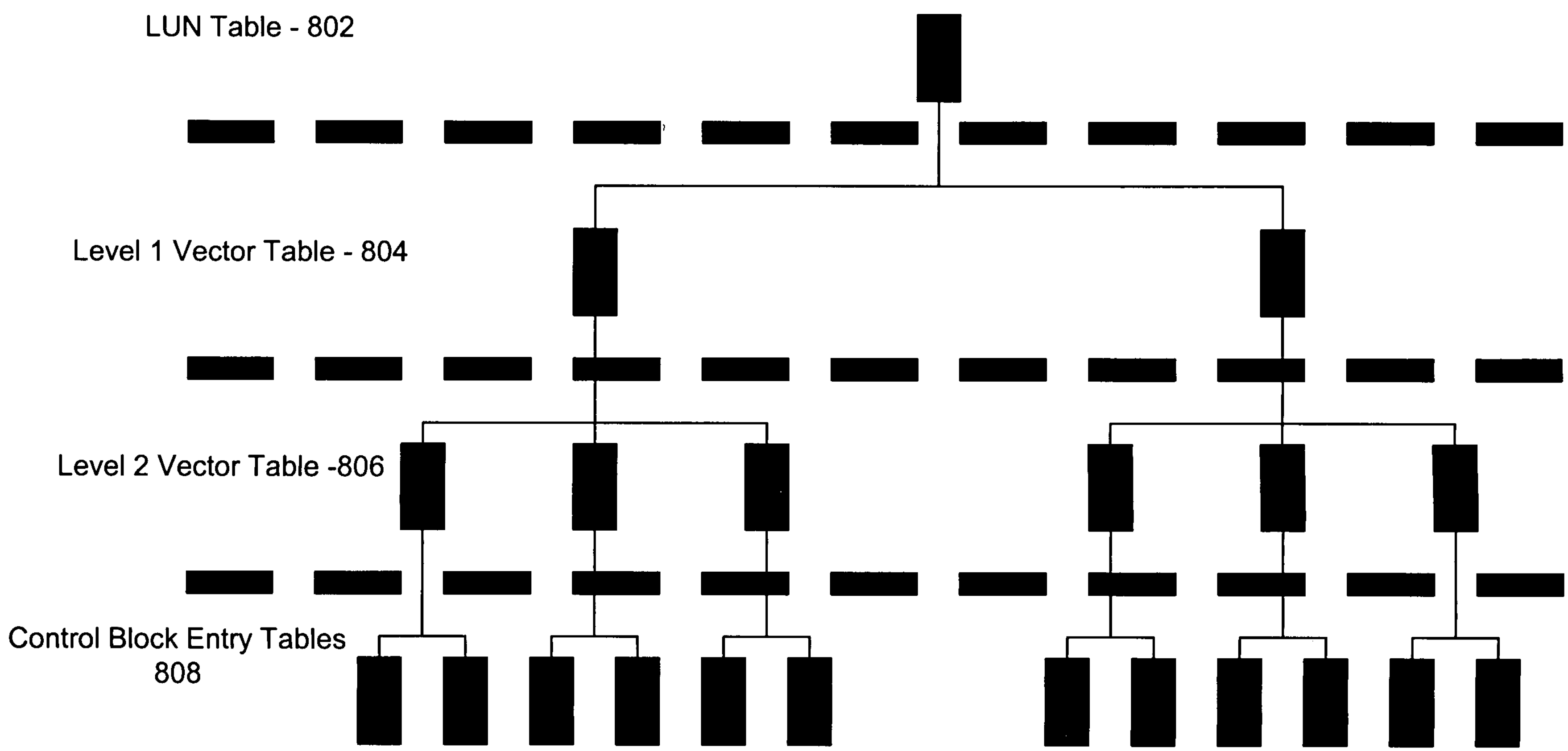


Figure 8

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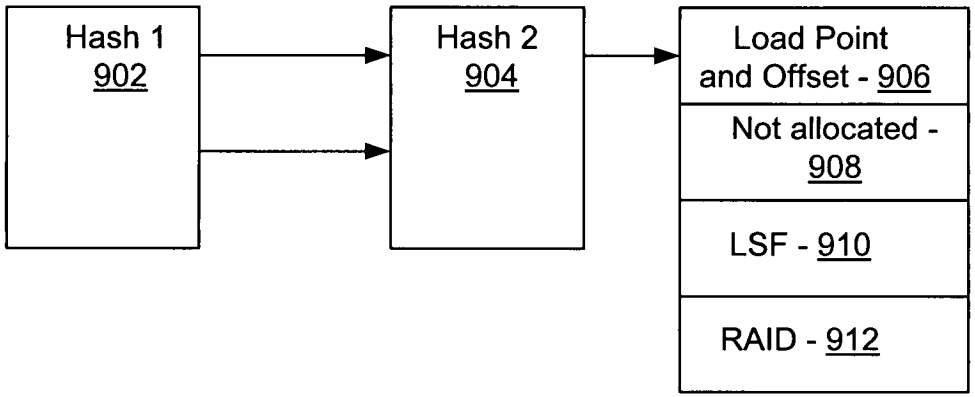

Figure 9

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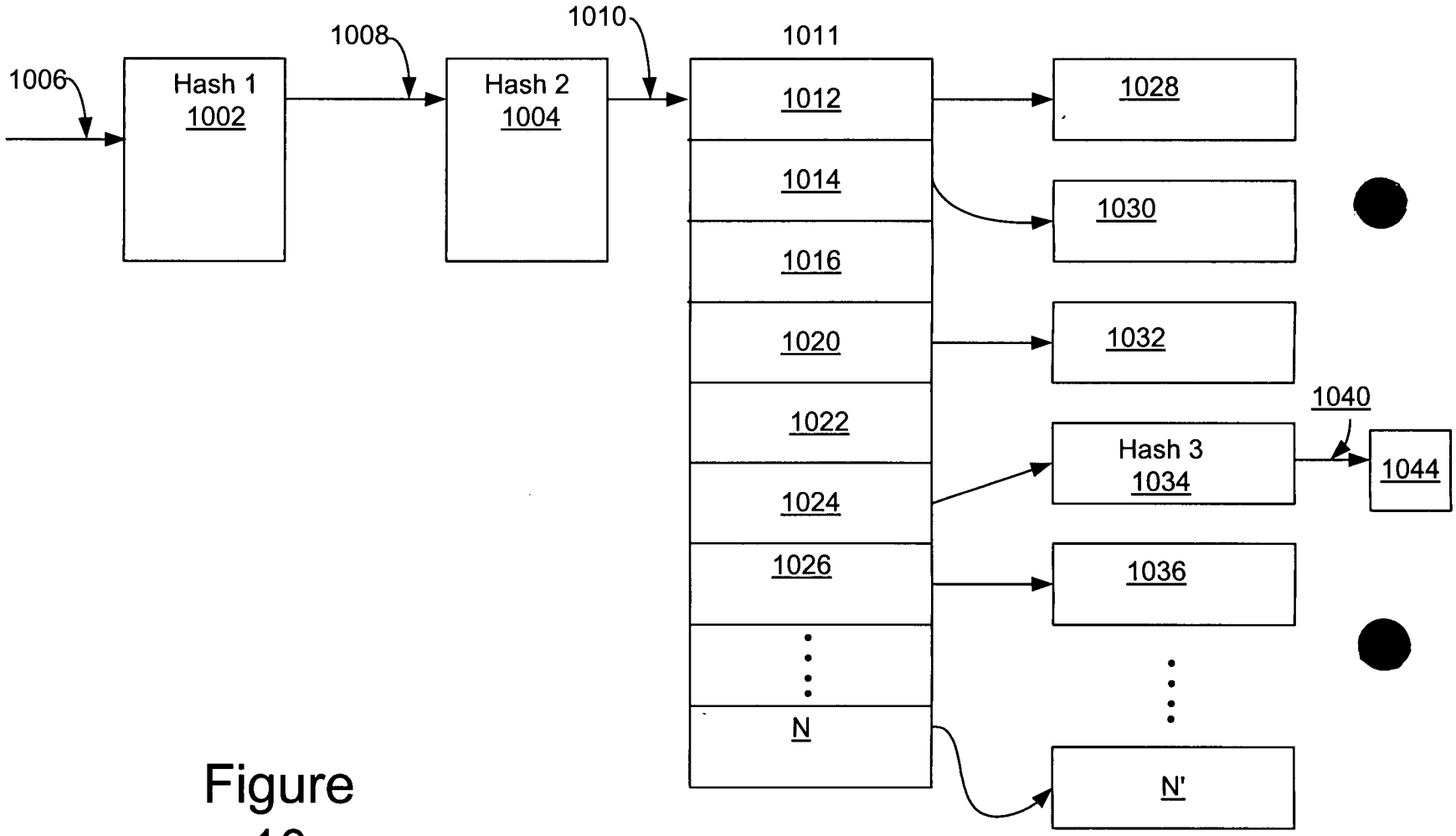
1006
Hash 1
1002
1008
Hash 2
1004
1010
1011
1012
1014
1016
1020
1022
1024
1026
N
1028
1030
1032
1040
Hash 3
1034
1044
1036
N'

Figure 10

Figure 11

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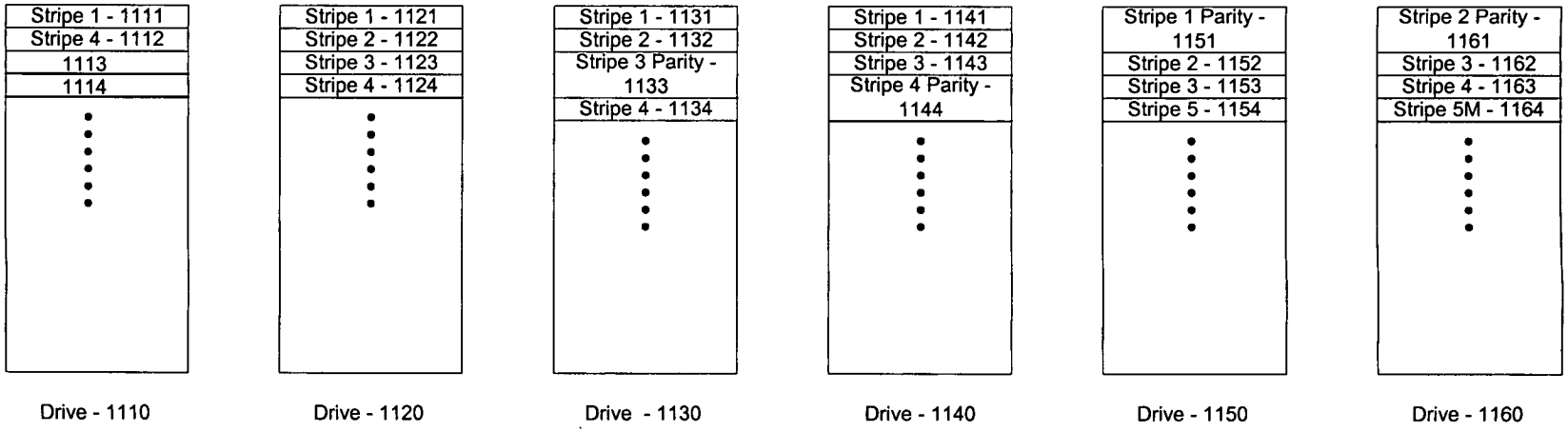
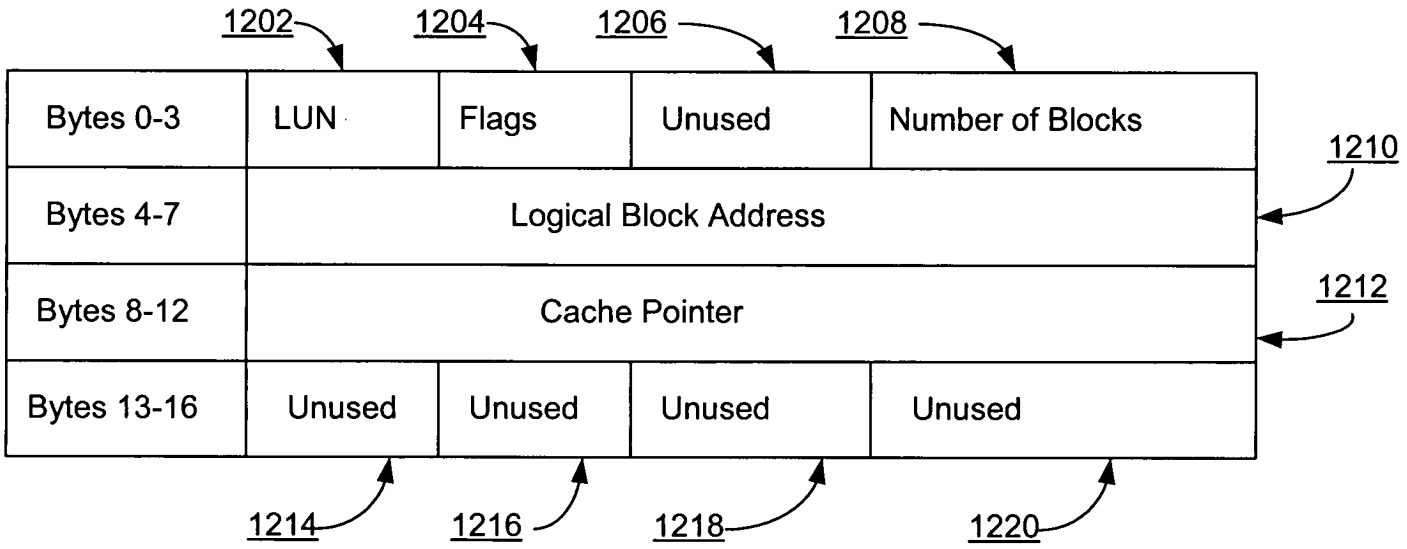


Figure 12


1202
1204
1206
1208
Bytes 0-3
LUN
Flags
Unused
Number of Blocks
1210
Bytes 4-7
Logical Block Address
Bytes 8-12
Cache Pointer
1212
Bytes 13-16
Unused
Unused
Unused
Unused
1214
1216
1218
1220

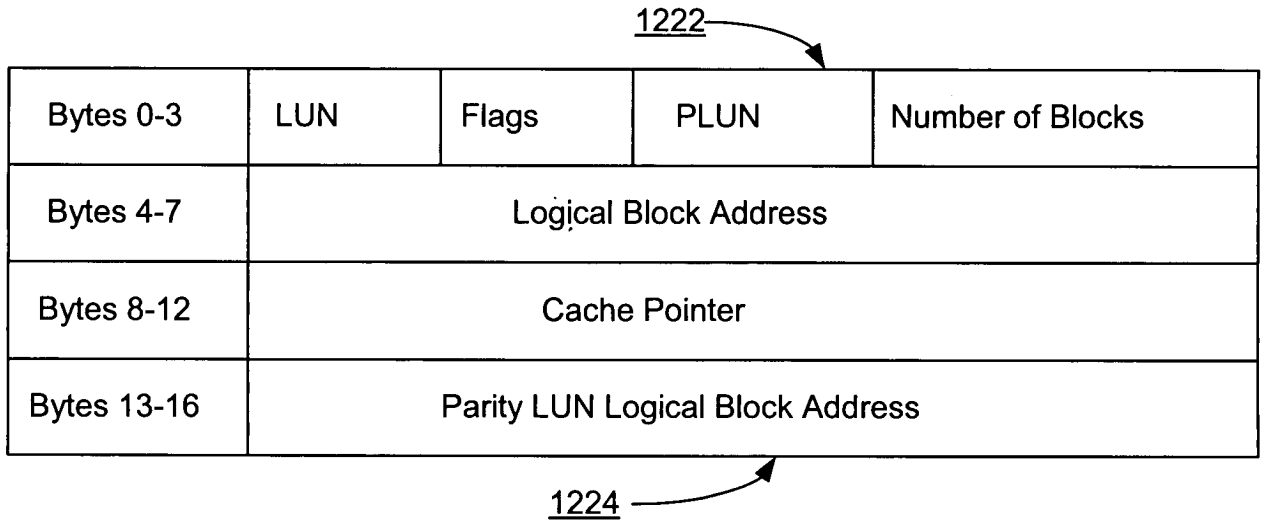

1222
Bytes 0-3
LUN
Flags
PLUN
Number of Blocks
Bytes 4-7
Logical Block Address
Bytes 8-12
Cache Pointer
Bytes 13-16
Parity LUN Logical Block Address
1224

Figure 13

Timestamp			
LBA of previous stripe			
Previous stripe LUN	Index of parity drive	RAID type of stripe	# of strips in stripe
Strip size in blocks			
1st LUN in stripe	Active count	# of host pieces in strip	Unused
LBA of data on 1st LUN			
2nd LUN in stripe	Active count	# of host pieces in strip	Unused
LBA of data on 2nd LUN			
Nth LUN in stripe	Active count	# of host pieces in strip	Unused
LBA of data on Nth LUN			
Host LUN	Length in strip	Host Length	
Host LBA			
Host LUN	Length in strip	Host Length	
Host LBA			

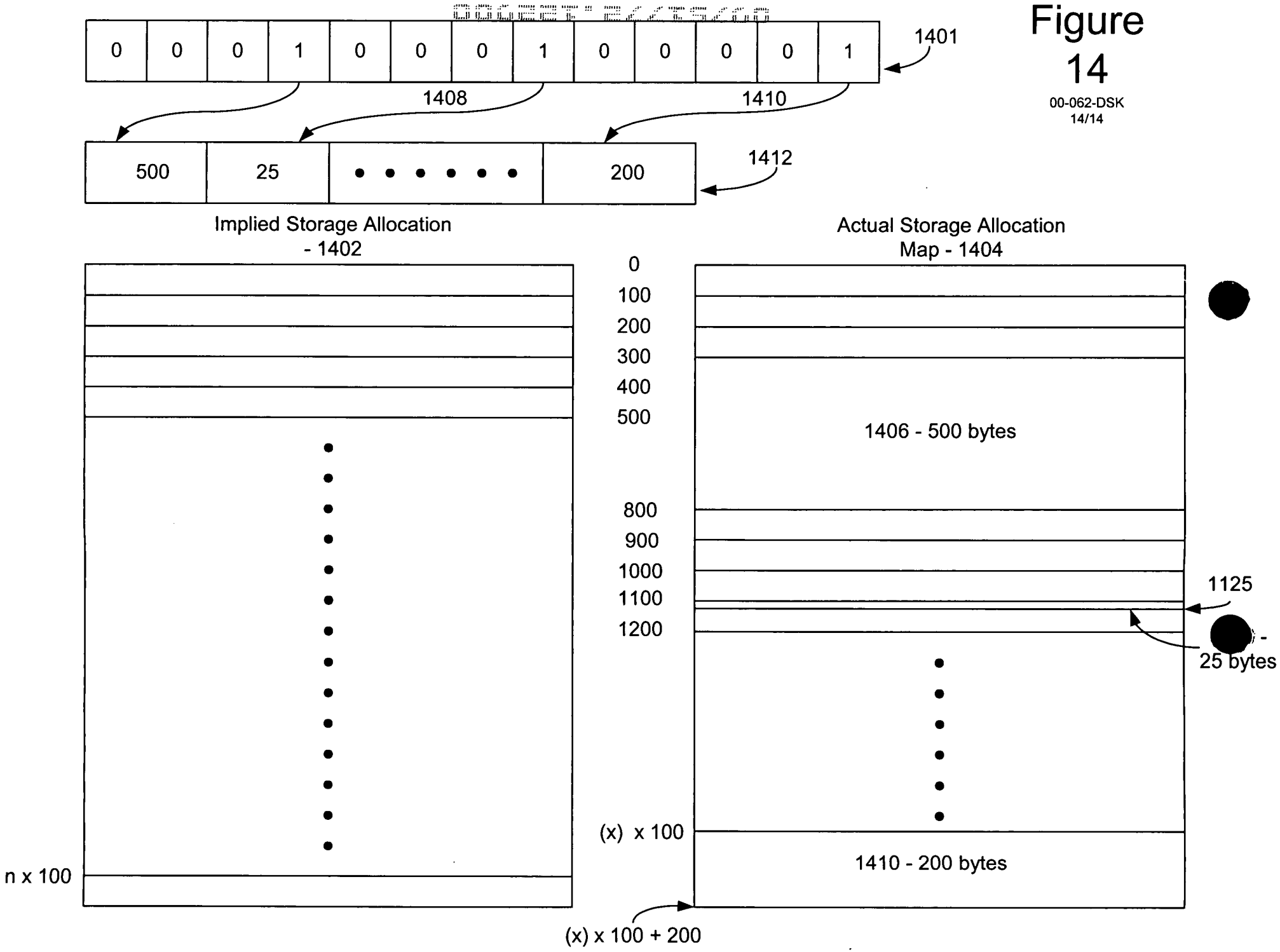


Figure 14

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